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%Female Mouse Liver
%Simulates the posterior mean parameter values from the MCMC analysis
%Plots simulation against the in vitro data

prepare @all
FemaleData
kk = [];
fkk = [];
WESITG = 0 ;
WEDITG = 0 ;
CJVITG = 0 ;

kk = [];
fkk = [];
tt = [];
km = [];
a10in = [];

VVIAL= 0.01165;
VMED= 0.001;
VINJ=0.0002;
VAIR=VVIAL-VMED;
TSTOP= 1.2; TF=0.; TI=0.2;
PROT = 1.0;
P1=0.69;
RLOSS = 0.001424 ;
CINT = 0.1 ;
MAXT = 0.001 ;

%Female Mice Liver

for pp = IDf_540ppm: IDf_10ppm
    A10 = B6FmiceLiver(1, pp)'*(VAIR+P1*VMED);

%MCMC Redo
    VMAX1 = 0.11 ; %0.26;
    KM1 = 0.63 ; %1.36;
    VK = 0.0 ;
    KG1 = 0.45 ;

    start @nocallback
        a10in = [a10in, A10];
        kk = [kk, _ca1];

    end % end of dose loop
%umol/L
fmliver=[...
0      0.422 1.867 5.465 9.863 21.378
0.2    0.052 0.411 2.492 6.07  16.789
0.4    0.013 0.081 1.082 3.834 13.771
0.6    NaN    0.018 0.488 2.491 10.624
0.8    NaN    0.007 0.229 1.715 9.99
1      NaN    NaN    0.131 1.185 8.902];

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plot(_time, kk(:,5), _time, kk(:,4), _time, kk(:,3), _time, kk(:,2),
_time, kk(:,1), fmliver(:,1), fmliver(:,2), fmliver(:,1), fmliver(:,3),
fmliver(:,1), fmliver(:,4), fmliver(:,1), fmliver(:,5), fmliver(:,1),
fmliver(:,6), 'fmliver.aps');
```